

PATENTS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: STOHRER ET AL -3
SERIAL NO: 10/667,810 GROUP: 1625
FILED: SEPTEMBER 22, 2003
TITLE: PROCESS FOR PREPARING ALKYNECARBOXYLIC ACIDS
BY OXIDATION OF ALKYNE ALCOHOLS

SUBMISSION OF
TWO INFORMATION DISCLOSURE STATEMENTS OF
DR. ROBERT FRANKEL

MAIL STOP NON FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Applicant wishes to bring to the attention of the Patent Examiner, the Information Disclosure Statement of Dr. Robert Frankel, dated November 3, 2003 and the twenty-six references listed on the enclosed Form PTO-1449 and attached thereto.


We would also like to bring to the attention of the Patent Examiner a second Information Disclosure Statement of Dr. Robert Frankel, dated November 4, 2003 with a European Search Report, dated October 17, 2003 and Form PTO-1449 with three references enclosed.

Since these Information Disclosure Statements (IDS) are being filed before any Office Action, it is believed that no fee is due. However, the Commissioner is hereby authorized to charge Deposit Account No. 03-2468 for any additional fees or credit any overpayment in connection with this IDS. It is respectfully requested that the foregoing IDS be incorporated into the official file of the present patent application.

Respectfully submitted,

Jurgen STOHRER

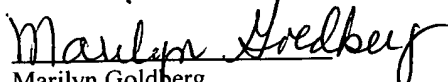
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Roslyn, New York 11576
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Edward R. Freedman
Registration No. 26,048
Attorneys for Applicants

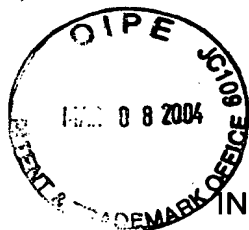
Enclosures:

- 1) PTO-form 1449 with 26 references
- 2) PTO-form 1449 with 3 references
- 3) European Search Report dated October 17, 2003
- 4) IDS of Dr. Frankel dated November 3, 2003
- 5) IDS of Dr. Frankel dated November 4, 2003

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commission for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on March 4, 2004.


Marilyn Goldberg

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

STOHRER ET AL: -3

Serial Number: 10/667/810

Group Art Unit: 1625

Filed: SEPTEMBER 22, 2003

For: PROCESS FOR PREPARING ALKYNECARBOXYLIC ACIDS BY OXIDATION
OF ALKYNE ALCOHOLS

Information Disclosure Statement

Honorable Commissioner of Patents and Trademarks
Washington, D.C. 20231

Sir or Madam:

I, Robert Fränkel, associated with the preparation and prosecution of the above-identified application, residing at Krottenkopfstr. 10, 81377 München, Germany, wish to call the attention of the Patent Examiner to the references enumerated on the enclosed PTO Form-1449.

I believe the documents enumerated on the enclosed Form PTO-1449 and attached thereto, are cited in the enclosed application and may be material to the examination of the application.

Therefore, it is respectfully requested that the foregoing Information Disclosure Statement be considered by the Examiner and incorporated into the file of this application.

I wish to comment as follows concerning the prior art references enumerated on PTO Form-1449:

Ullmann's Encyclopedia, 6th edition, 2001, electronic release; "Carboxylic acids, aliphatic 5.2" is already in English language.

Houben-Weyl, volume V/2a, 4th edition 1977, "Alkynes" describes multiple possibilities for the oxidation of alkynols to alkynoic acids using hypohalites, metal oxides (MnO₂, CrO₃, etc.) and following reactions of functionalized alkynoic compounds as addition and cyclization reactions.

Wolf, Chem. Ber. 1954, 87, 668 describes the electrochemical amodic oxidation of primary and secondary alkynols to alkynoic acids and alkynoic ketones in an acidic solution.

Kaulen and Schäfer, Tetrahedron 1982, 38, 3299 is already in English language.

Heilbron, Jones and Sondheimer, J. Chem. Soc. 1949, 606 is already in English language.

T. W. Abbott et al., Org. Synth. Coll. Vol. II, 1943, 10 is already in English language.

A. E. J. de Nooy, A. C. Besemer and H. V. Bekkum, Synthesis 1996, 1153 is already in English language.

G. Grigoropoulou et al., Chem. Commun. 2001, 547-548 is already in English language.

P. L. Anelli, C. Biffi, F. Montanari and S. Quici, J. Org. Chem. 1987, 52, 2559 is already in English language.

P. L. Anelli, F. Montanari and S. Quici, Org. Synth., 1990, 69, 212 is already in English language.

M. Zhao et al., J. Org. Chem. 1999, 64, 2564 is already in English language.

WO 99/52849 is already in English language.

Straus et al., Ber. Dtsch. Chem. Ges. 1930, 1868 is already in English language.

For EP 1 103 537 an English Derwent Abstract is enclosed.

Cirriminna et al., Chem. Commun. 2000, 1441 is already in English language.

Bolm et al., Chem. Commun. 1999, 1795 is already in English language.

Bobbitt et al., Chem. Commun. 1996, 2745 is already in English language.

Miyazawa and Endo, J. Molec. Catal. 49, 1988, L31 is already in English language.

M. J. Verhoef et al., "Studies in Surface Science and Catalysis", Vol. 125, p. 465 ff is already in English language.

D. Brunel et al., "Studies in Surface Science and Catalysis", Vol. 125, p. 237 ff is already in English language.

Miyazawa and Endo, J. Polymer Sci., Polym. Chem. Ed. 23, 1985, 1527 and 2487 is already in English language.

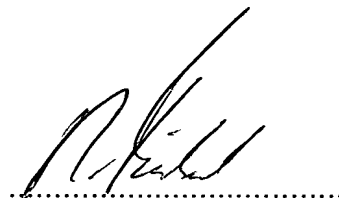
T. Osa, Chem. Lett. 1988, 1423 is already in English language.

Ullmann's Encyclopdedia, 6th edition, 2002, electronic release; "Chlorine oxides and Chlorine oxygen acids 2.-4." is already in English language.

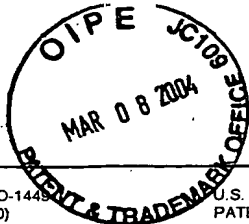
Ullmann's Encyclopedia, 6th edition, 2002, electronic release, "Phase transfer catalysis", is already in English language.

Ullmann's Encyclopedia of Industrial Chemistry, vol. B4 is already in English language.

Signed this 3rd day of November, 2003.

A handwritten signature in black ink, appearing to read 'R. Fränkel', is written over a horizontal dotted line.

Dr. Robert Fränkel

FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO. : CO 10215SERIAL NO. 10/667,810APPLICANT : Stohrer et al. - 3FILING DATE: 9/22/2003GROUP: 1625

LIST OF REFERENCES CITED BY APPLICANT

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL	<u>99/52849</u>	<u>10/21/99</u>	<u>PCT International</u>				
	AM	<u>1103537</u>	<u>5/30/01</u>	<u>Europe</u>				
	AN							
	AO							
	AP							

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR		<u>Vilman's Encyclopedia, 6th edition, 2001, electronic release, "Carboxylic acids, aliphatic 5.2"</u>
	AS		<u>Houben-Weyl, volume V/2a, 4th edition, 1977</u>
			<u>"Alkynes"</u>
	AT		<u>Wolf. Chem. Ber. 1954, 87, 668</u>

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. : C010215		SERIAL NO. 10/667,810	
LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT : Gtohrer et al. - 3			
				FILING DATE: 9/22/2003		GROUP: 1625	

U.S. PATENT DOCUMENTS							
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	AR		Kaulen and Schäfer, Tetrahedron, 1982, 38, 3299
	AS		Heilbron, Jones and Sondheimer, J. Chem. Soc. 1949, 606
	AT		T.W. Abbott et al., Org Synth. Coll. Vol. II, 1943, 10

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LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT : <u>Stohrer et al. - 3</u>				
				FILING DATE: <u>9/22/2003</u> GROUP: <u>1625</u>				
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	AR		A. E. J. de Nooy, A. C. Besemer and H. V. Bekkeum,					
			Synthesis 1996, 1153					
	AS		G. Grigoriopoulou et al., Chem. Commun. 2001,					
			547-548					
	AT		P. L. Anelli, C. Biffi, F. Montanari and S. Quici, J.					
			Org. Chem. 1987, 52, 2559					
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			<u>1990, 69, 212</u>
	AS		<u>M. Zhao et al., J. Org. Chem. 1999, 64, 2564</u>
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	AR		<u>Miyazawa and Endo, J. Molec. Catal. 49, 1988,</u>					
			<u>L 31</u>					
	AS		<u>M. J. Verhoef et al., 'Studies in Surface Science and</u>					
			<u>Catalysis', Vol. 125, p. 465 ff.</u>					
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ATTY. DOCKET NO. : C010215

SERIAL NO. 10/667,810

APPLICANT : Stohrer et al. -3

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	AS		<u>Ullmann's Encyclopedia of Industrial Chemistry, vol. 34</u>					
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STOHRER ET AL: -3

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Sir or Madam:

I, Robert Fränkel, associated with the preparation and prosecution of the above-identified application, residing at Krottenkopfstr. 10, 81377 München, Germany, wish to call the attention of the Patent Examiner to the references enumerated on the enclosed PTO Form-1449.

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Therefore, it is respectfully requested that the foregoing Information Disclosure Statement be considered by the Examiner and incorporated into the file of this application.

I wish to comment as follows concerning the prior art references enumerated on PTO Form-1449:

For EP 1 336 599 the corresponding US 2003/0158439 is enclosed.

Signed this 4th day of November, 2003.


.....
Dr. Robert Fränkel

FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
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